



From the INTERNATIONAL SEARCHING AUTHORITY

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NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

DOCKETED

Date of mailing (day/month/year)

20/06/2003

Applicant's or agent's file reference

069204.0182

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/US 02/01804

International filing date (day/month/year)

22/01/2002

Applicant

XTERA COMMUNICATIONS, INC.

<u> </u>	The appl	icant is hereby n	notified that the International Search Report has been established and is transmit	ted herewith.
			and statement under Article 19: if he so wishes, to amend the claims of the International Application (see Rule 46	3):
	When?		or filing such amendments is normally 2 months from the date of transmittal of the earch Report; however, for more details, see the notes on the accompanying she	
	Where?	Directly to the	International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35	
	For mor	e detailed instru	ructions, see the notes on the accompanying sheet.	
· [The app Article 1	licant is hereby n 7(2)(a) to that eff	notified that no International Search Report will be established and that the declifect is transmitted herewith.	aration under
3. <u> </u>	With rec	gard to the prote	est against payment of (an) additional fee(s) under Rule 40.2, the applicant is no	otified that:
	the app	protest together plicant's request	er with the decision thereon has been transmitted to the International Bureau toge to forward the texts of both the protest and the decision thereon to the designate	ther with the d Offices.
	no no	decision has bee	en made yet on the protest; the applicant will be notified as soon as a decision is	made.
. Fo	urther actio	n(s): The appl	olicant is reminded of the following:	
SI	hortly after 1	8 months from t	the priority date, the international application will be published by the International	al Bureau.

If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90*bis*.1 and 90*bis*.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Tanja R}hrmund

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2):

Where a demand for international preliminary examination has been fis filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- the claim is cancelled;
- the claim is new;
- (iv) the claim replaces one or more claims as filed;
- the claim is the result of the division of a claim as filed.

The following examples litustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."

"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
- (Where various kinds of amendments are made): Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added.

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 069204.0182		f Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 02/01804	22/01/2002	19/01/2001
Applicant		
XTERA COMMUNICATIONS, INC		
This International Search Report has bee according to Article 18. A copy is being to	n prepared by this International Searching Aut ansmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists [X] It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.
1. Basis of the report	international appropriate and as the least	nio of the international application is the
	international search was carried out on the bar less otherwise indicated under this item.	sis of the international application in the
the international search v Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of t	he international application furnished to this
b. With regard to any nucleotide are was carried out on the basis of the		nternational application, the international search
I	onal application in written form.	
filed together with the into	ernational application in computer readable for	n.
furnished subsequently to	this Authority in written form.	
furnished subsequently to	this Authority in computer readble form.	
	bsequently furnished written sequence listing d as filed has been furnished.	loes not go beyond the disclosure in the
the statement that the inf furnished	ormation recorded in computer readable form i	s identical to the written sequence listing has been
2. Certain claims were fou	ind unsearchable (See Box I).	
3. Unity of invention is lac	sking (see Box II).	
4. With regard to the title,		
X the text is approved as s	ubmitted by the applicant.	
the text has been establi	shed by this Authority to read as follows:	
	•	
5. With regard to the abstract,	ubmitted by the applicant	
the text has been establi	ubmitted by the applicant. shed, according to Rule 38.2(b), by this Author e date of mailing of this international search re	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be put	olished with the abstract is Figure No.	15A
X as suggested by the app	licant.	None of the figures.
because the applicant fa	iled to suggest a figure.	·
because this figure bette	r characterizes the invention.	

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04B10/17 H01S3/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
P,L, X	WO 01 52372 A (FREEMAN MICHAEL ;ISLAM MOHAMMED N (US); XTERA COMMUNICATIONS INC () 19 July 2001 (2001-07-19)	1-3, 5-22, 24-30, 32,33
	page 20, line 4 - line 18 page 30, line 11 - line 25 page 31, line 22 -page 33, line 33 page 40, line 18 - line 25 figures 5,12A,30,31,32A,32B,33A,33B	
X	WO 99 66607 A (BANDWIDTH SOLUTIONS INC ;ISLAM MOHAMMED AZIZUL (US); ISLAM MOHAMME) 23 December 1999 (1999-12-23) page 17, line 25 -page 18, line 7	9–33
	page 34, line 13 -page 35, line 27 figure 15A 	

X Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
Special categories of cited documents: A document defining the general state of the art which is not considered to be of particular relevance E earlier document but published on or after the international filing date L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O document referring to an oral disclosure, use, exhibition or other means P document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 5 June 2003	Date of mailing of the international search report 20/06/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Masche, C

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International Application No PCT/US 02/01804

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
x	US 6 151 160 A (NISSOV MORTEN ET AL) 21 November 2000 (2000-11-21) column 2, line 19 - line 60 column 5, line 9 - line 31 figure 4	1-8
A	US 6 101 024 A (HARRIS HAYDEN HENRY ET AL) 8 August 2000 (2000-08-08) the whole document	
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TERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/US 02/01804

	nt document n search report		Publication date		Patent family member(s)	Publication date
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				ΕP	1250737 A1	23-10-2002
				WO	0152372 A1	19-07-2001
				US	2003016437 A1	23-01-2003
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				EP	1088375 A2	04-04-2001
				JΡ	2002518854 T	25-06-2002
				US	2003058523 A1	27-03-2003
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				AU EP JP US WO US US US	3362899 A 1068656 A2 2002508601 T 2002054427 A1 9949580 A2 2003016438 A1 6356384 B1 6239903 B1 6239902 B1 2001048343 A1	17-01-2001 19-03-2002 09-05-2002 30-09-1999 23-01-2003 12-03-2002 29-05-2001 29-05-2001 06-12-2001